

FIG. 1

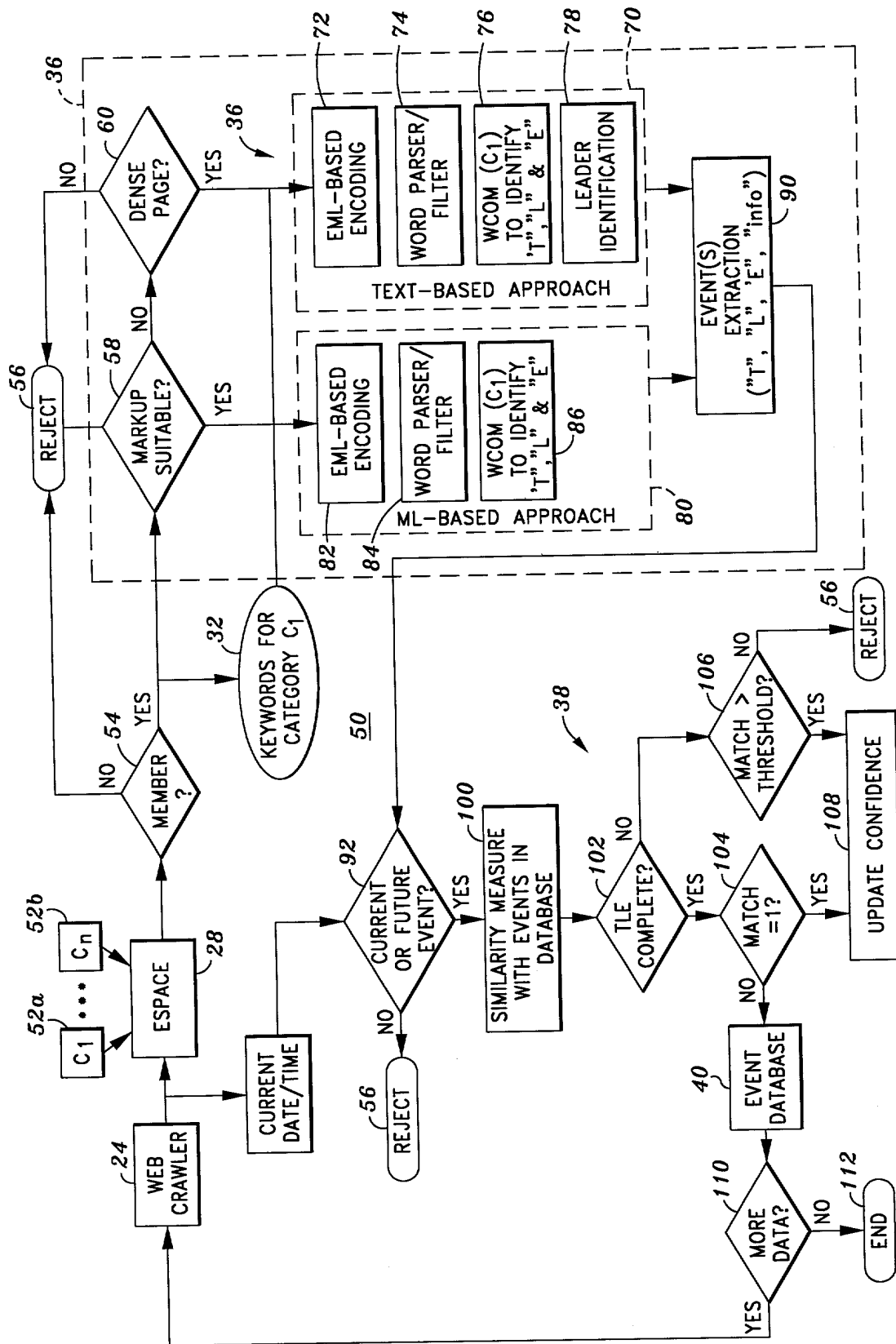
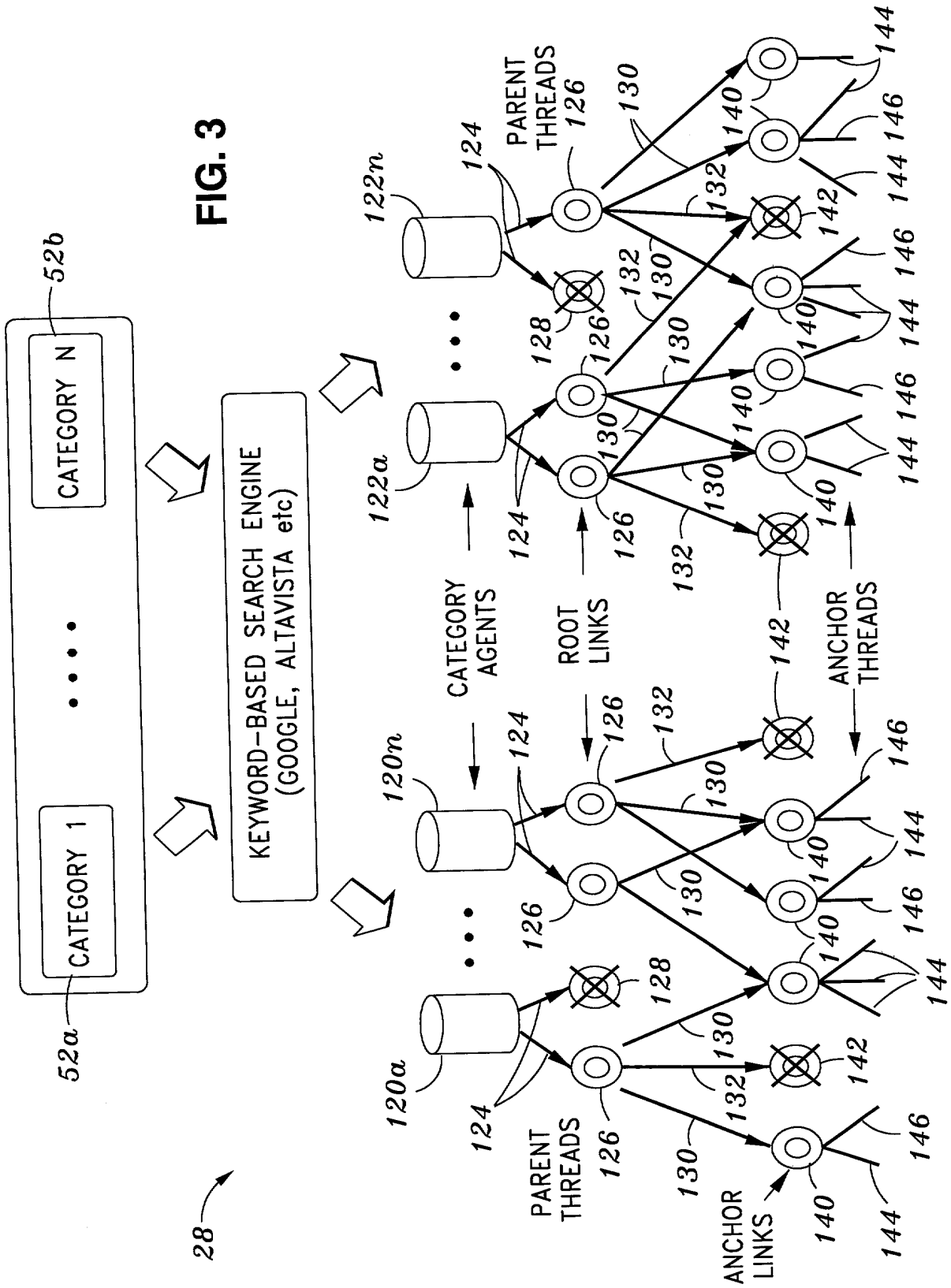


FIG. 2

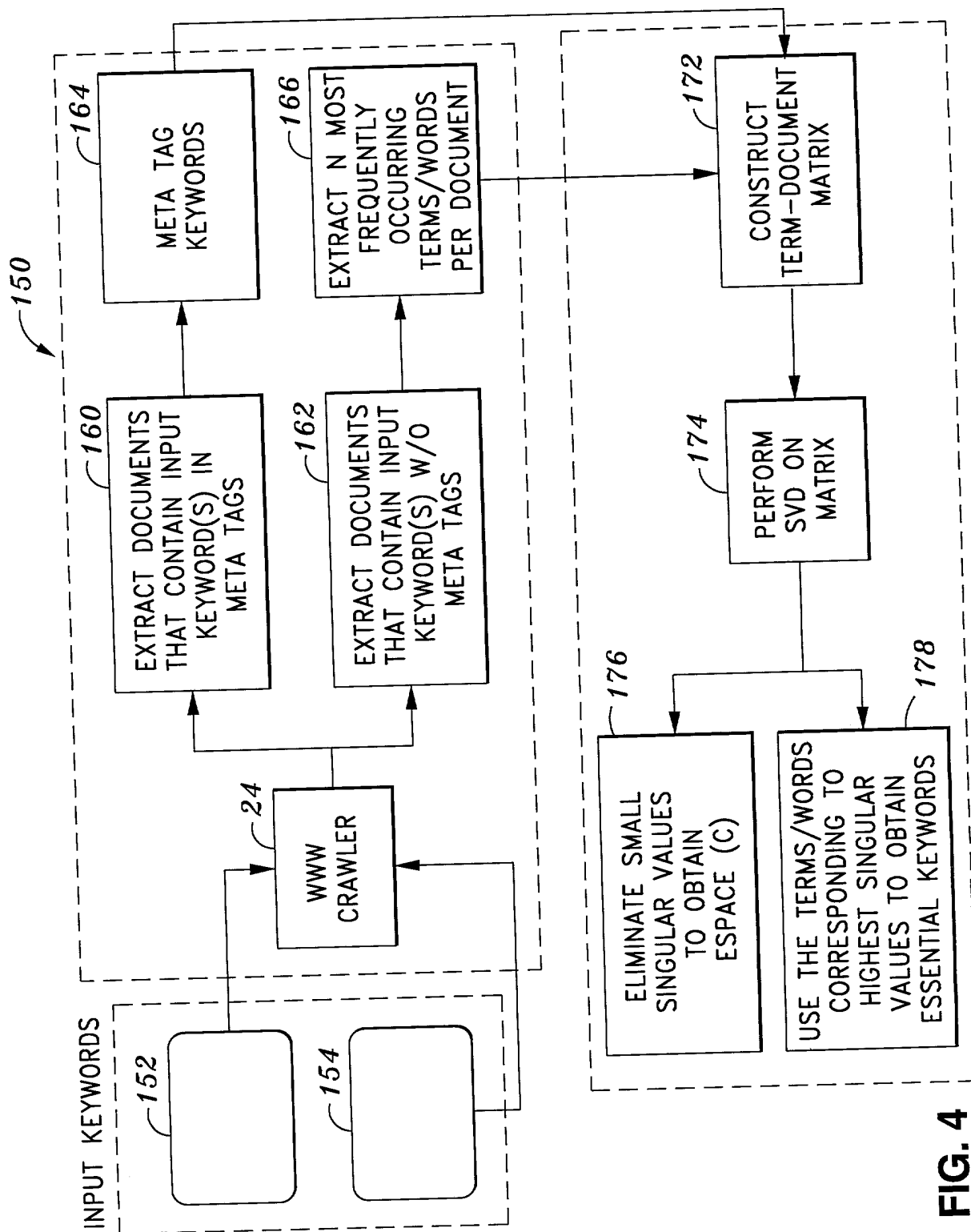
FIG. 3



28

R E A L T I M E

O F F L I N E



PGA TOUR SENIOR PGA TOUR BUY.COM TOUR LPGA EUROPEAN PGA TOUR golfing tournaments golf balls sports golf courses tee times golf companies Masters US Open U.S. Open PGA Championship TPC World Championships of Golf British Open Pebble Beach Tiger Woods Greg Norman Fred Couples Davis Love III John Daly David Duval Ernie Els Tom Lehman Justin Leonard Phil Mickelson Arnold Palmer Jack Nicklaus Byron Nelson PGA TOUR SENIOR PGA TOUR BUY.COM TOUR LPGA EUROPEAN PGA TOUR golfing tournament golf balls golf clubs sports golf courses tee times golf companies Masters US Open U.S. Open PGA Championship TPC world Championships of Golf British Open Pebble Beach Tiger Woods Greg Norman Fred Couples Davis Love III John Daly David Duval Ernie Els Tom Lehman Justin Leonard Phil Mickelson Arnold Palmer Jack Nicklaus Byron Nelson PGA TOUR golfing tournaments golf balls golf clubs golf courses tee times golf companies sports stats scores news Tiger Woods PGA PGA Jack Nicklaus Golf PGATour.com golfCBS Sports Olympics winter olympics Nagano NFL NFL football AFC AFC football NFL on CBS Super Bowl times races events iaaf track field dashes grand prix cbs television sports cbs tv CBS coverage sports television listings weekend events cbs sports television TV listings sports programming television programming golf fantasy golf free fantasy golf Golf fantasy sports tiger woods free fantasy sports golf games golf game free golf games free on-line golf tournament golf free golf league free sports league internet golf free internet golf

FIG. 5

200

A

210

Term No.	Term	Document	1	2	3	4	5
1	+fantasy	0	0	0	0	0	0
2	AFC	0	0	0	0	0	0
3	American	0	0	0	0	0	0
4	amp	0	0	0	0	0	0
5	Andersen	0	0	0	0	0	0
6	Annika	1	1	0	0	0	1
7	Architects	0	0	0	0	0	0
8	Architecture	0	0	0	0	0	0
9	Arnold	0	0	0	0	0	0
10	athletics	0	0	0	0	0	0
11	Audio	4	4	1	1	0	0
12	Auto	0	0	0	0	0	0
13	Baird	0	0	0	0	0	0
14	balls	0	0	0	0	0	0
15	baseball	0	0	0	0	0	0
16	Basketball	0	0	0	1	0	0
17	Beach	0	0	0	0	0	0

212

218

...

214

216

...

FIG. 6

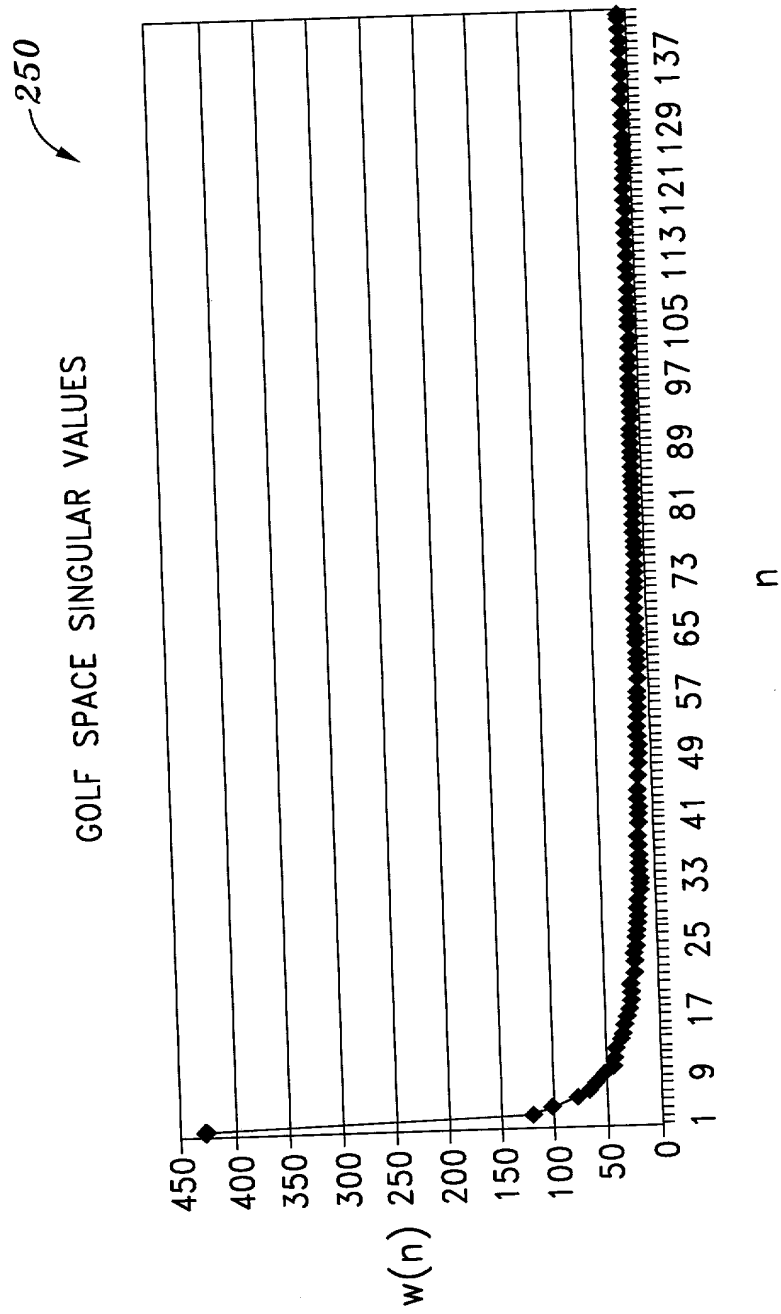
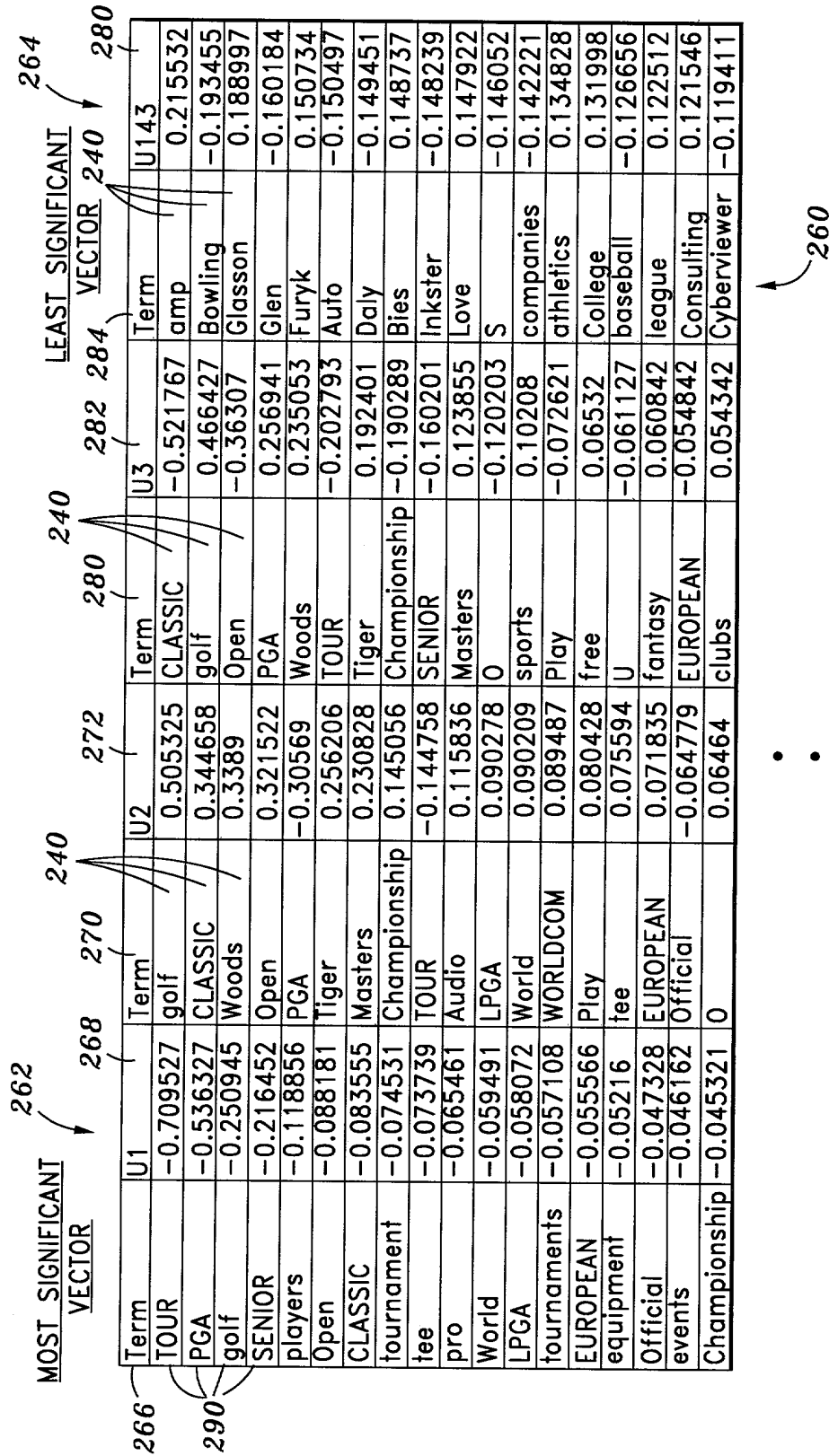


FIG. 7



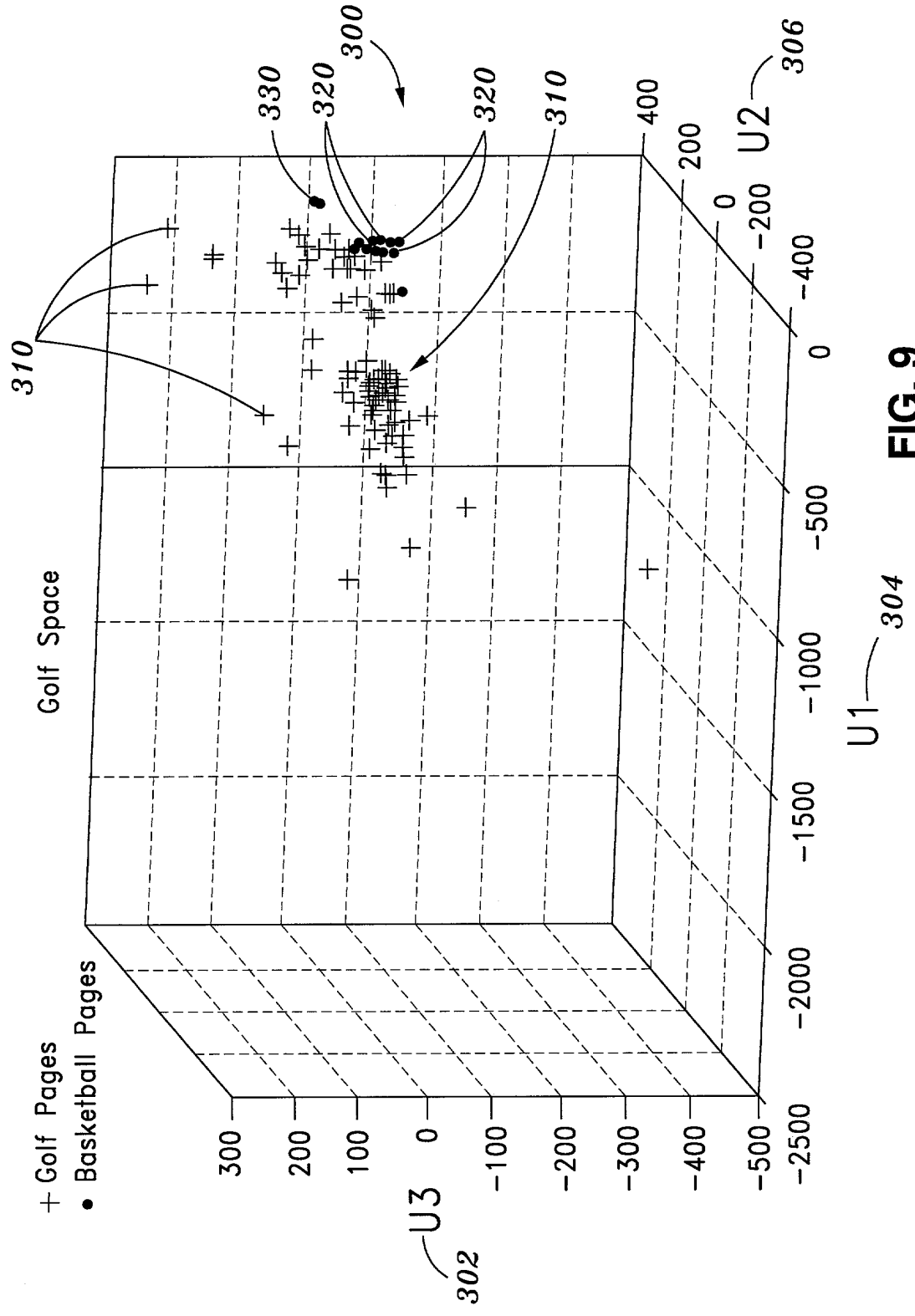
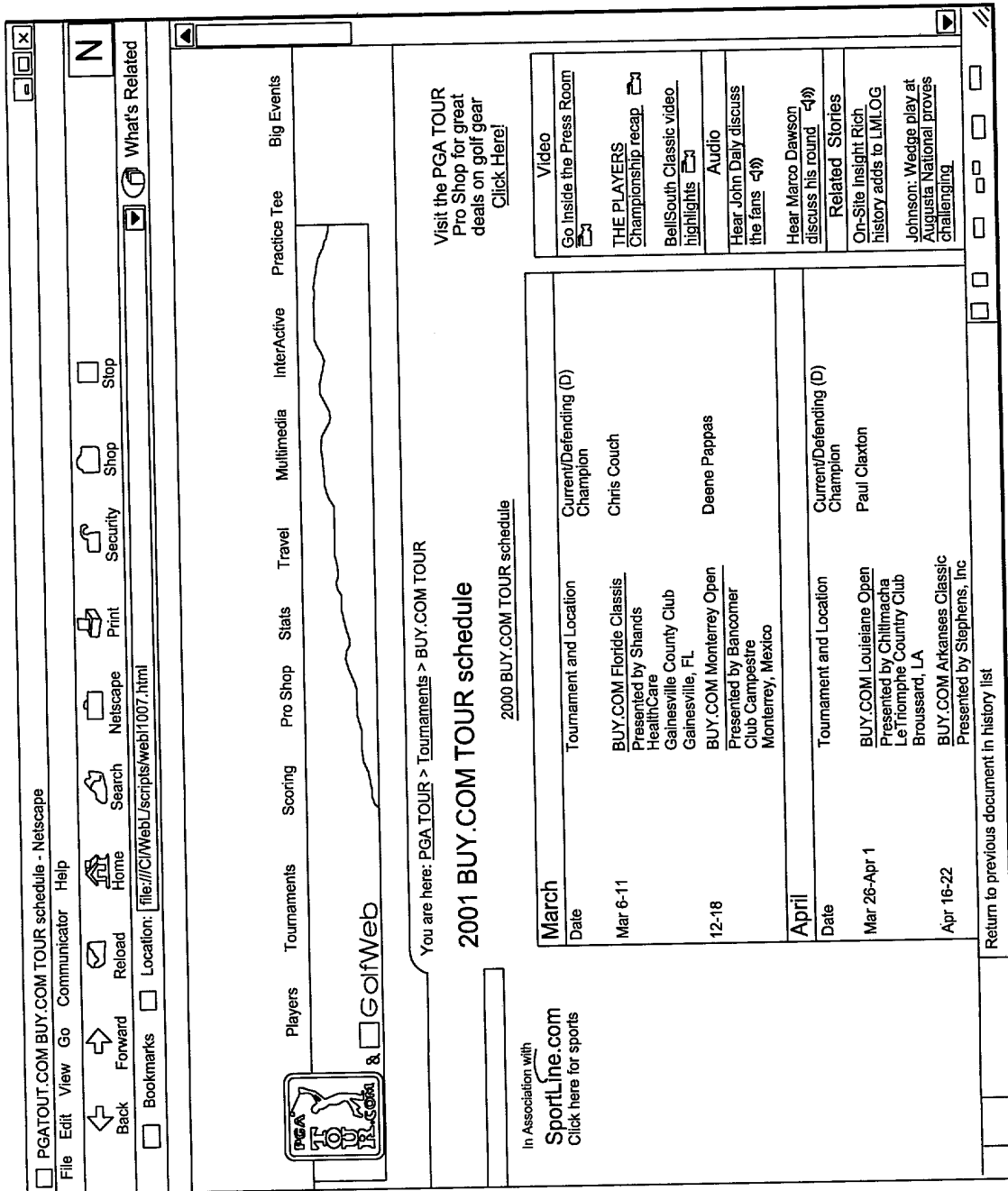


FIG. 10



11/15

TEXT FROM WORD PARSER

["PGATOUR.COM(W)11", "PGA(W)3", "TOUR(W)4",
 "<! (W)E", "
 var(W)4", "vTag(W)4", "= (W)1",
 "exclusive="no";(W)15", "select(W)6",
 (W)2", "SENIOR(W)6", "TOUR(W)4", "
 (W)2", "BUY.COM(W)7", "
 (W)2", "LOGA(W)4", "
 (W)2", "European(W)8", "
 (W)2", "other(W)5", "I
 (W)3", "Buy(W)3", "Tickets(W)7", "I
 (W)3", "
 "1(d)1", "7(d)1", "World(W)5", "Golf(W)4",
 "Championships: (W)14", "Accenture(W)9",
 "March
 (W)6", "Play(W)4", "Championship(E)12", "
 (W)2", "Metropolitan(W)12",
 "Golf(W)4", "Club(W)4", "
 (W)2", "Melbourne(c)9",
 "Australia(c)9", "
 (W)2", "ESPN/ABC
 (W)9", "St.(c)3", "Paul(c)4", "west(W)4",
 "Coast(W)5", "Swing(W)5", "Event(W)5",
 "Steve(W)5", "Stricker(W)8", "8(d)1",
 "14(d)2", "Mercedes(W)8",
 "Championships(E)13", "
 (W)2", "Plantation(W)10",
 "Course(W)6", "Kapalua(W)7", "
 (W)2", "Kapalua(W)7", "HI(S)2"

350

FIG. 11a

CORE EML ALPHABETS

TIME: M-MONTH, D-DAY, d-DATE, Y-YEAR, m-minutes, h-hours
LOCATION: C-COUNTRY, S-STATE, c-city
EVENT: E-EVENT KEYWORD(e.g., CHAMPIONSHIP)
 OTHER: W

FIG. 11b

12/15

EML BASED ENCODING OF TEXT ABOVE

W30 d W5 d W4 d W18 d W135 E W60 d
W74 E W1 E W2 E W2 E W67 M d W66 Y
W3 C C W9 M W1 E W4 d d W6 E W5 C C
W2 C C W6 d d W1 E W6 S
.....

FIG. 11c

360

WORD CO-OCCURENCE MODELS FOR GOLF EVENTS

TIME: MdMd, dMd, Mdd, dd=T
LOCATION: cC,csC, cS, S, C=L
EVENT: E
OTHER: Wn

FIG. 12a

370

EML BASED ENCODING WITH INTER-LEVEL
WORD CO-OCCURENCE MODELS FOR GOLF

W30 d W5 d W4 d W18 d W135 E W60 d W74 E
W1 E W2 E W2 E W67 M d W66 Y W3 cc W9 M
W1 E W4 T W6 E W5 L W2 cc W6 T W1 E W6 L
.....

FIG. 12b

380

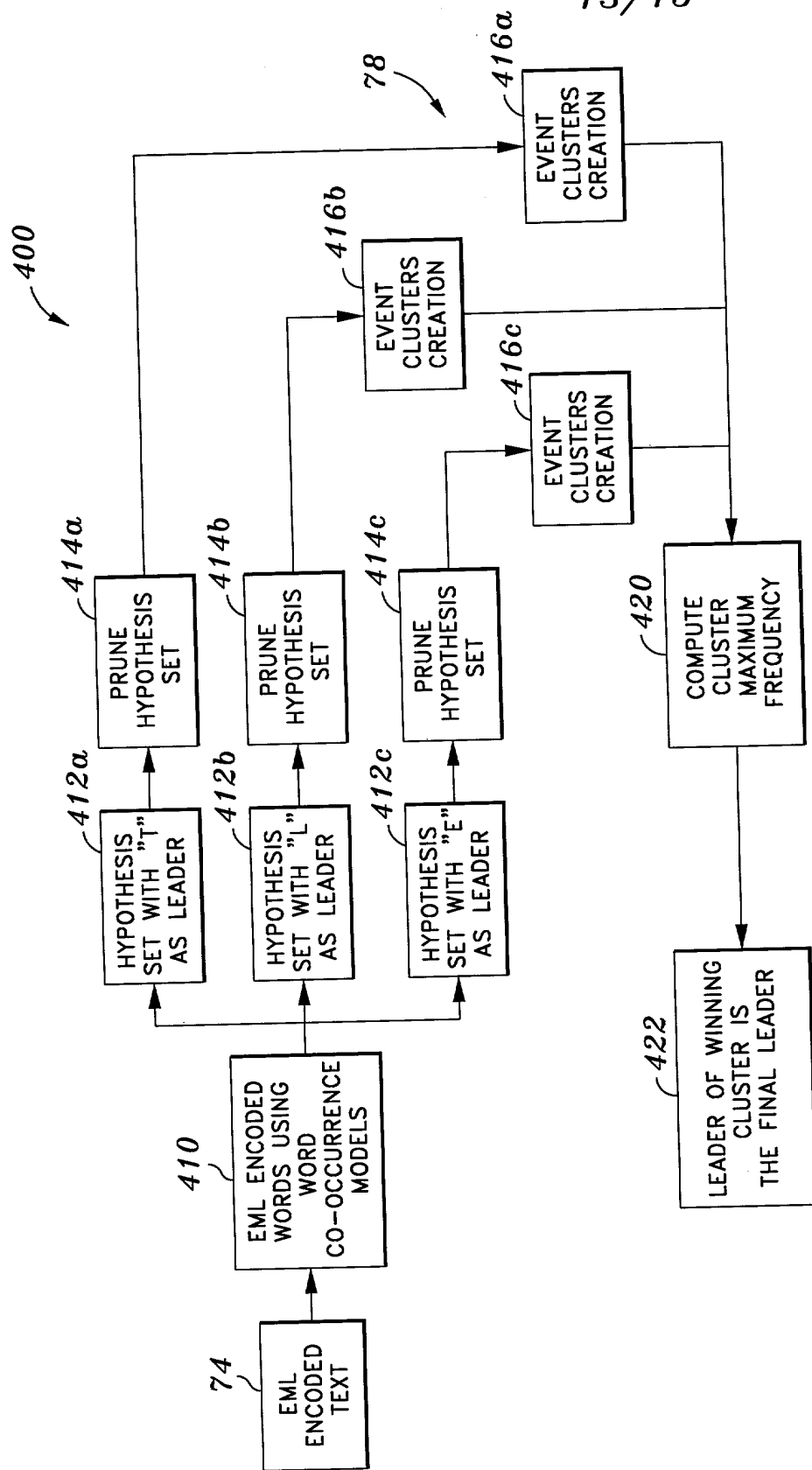


FIG. 13

ESPNU.COM Golf Online - Netscape

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Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: file:///C:/Web/scripts/web11002.html What's Related

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- Senior Tour ▲
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2001 BUY.COM TOUR schedule

Date	Tournament	Top finishers	Score/Earnings
Jan. 3-7	WGC: Adventure match play Championship	1. Steve Stricker 2. Phil Fokeer 3. Tom Taniguchi	28-1 \$1 million \$500.00 \$400.000
Jan. 11-14	Mercedes Championships	1. Jim Furyk 2. Rory Sabbatini 3. Vijay Singh 4. Vijay Singh	274(-18); \$630,200 275(-17); \$300,000 276(-16); \$203,000 276(-16); \$203,000
Jan. 11-14	Touchstone Energy Tucson Open	1. Garnett Willis 2. Keith Steward 3. Geoff Ogilvy 4. Bob Tway	273(-15); \$540,000 274(-14); \$324,000 275(-13); \$174,000 275(-13); \$174,000
Jan. 18-21	Sony Open in Hawaii	1. Brad Faxon 2. Tom Lehman 3. Ernie Els	260(-10); \$724.00 264(-10); \$432,000 267(-13); \$272,000
Jan. 25-28	Phoenix Open	1. Mark Calcavecchia 2. Rocco Mediate 3. Steve Lowary	256(-20); \$720,000 264(-20); \$432,000 269(-16); \$272,000
Feb. 1-4	AT&T Pebble Beach National Pro-Am	1. Davis Love III 2. Phil Mickelson 3. Phil Brown 4. Phil Mickelson	272(-156); \$720,000 273(-15); \$432,000 275(-13); \$232,000 275(-13); \$232,000
Feb. 9-11	Buck International	1. Phil Mickelson 2. Frank Lickliter 3. Davis Love III	269(-19); \$630,000 269(-19); \$300,000 269(-19); \$300,000
Feb. 14-20	Bob Hope Chrysler Classic	1. Joe Durant 2. Paul Spinkowski 3. Mark Calcavecchia	324(-36); \$530,000 328(-32); \$378,000 330(-30); \$238,000
Feb. 22-25	Nissan Open	1. Robert Almerby 2. Brandon Chambers 3. Toshitaka 4. Denise Paulson	276(-8); \$612,000 276(-8); \$204,000 276(-8); \$204,000 276(-8); \$204,000
March 1-4	Gerry Championship	1. Joe Durant	278(-18); \$810,000

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FIG. 14a

EXTRACTED TIMES, LOCATIONS, CATEGORIES AND INFO

- TLC#1: ["April 2 8", "Masters Tournament", "GA",
"Augusta National Golf Club Augusta"]
- TLC#2: ["April 16 22", "Shell Houston Open", "TX", "TPC
at Woodlands"]
- TLC#3: ["April 23 29", "Greater Greensboro Chrysler
Classic", "NC", "Forest Oaks Country Club Greensboro"]
- TLC#4: ["June 4 10", "FedEx St. Jude Classic", "TN",
"TPC at Southwind Memphis"]
- TLC#5: ["June 14 17", "U.S. Open Championships*)USGA
Tournament", "Ok", "Southern Hills Country Club Tulsa"]
- TLC#6: ["June 18 24", "Buick Classic", "NY",
"Westchester Country Club Harrison"]
- TLC#7: ["June 25 July 1", "Canon Greater Hartford
Open", "CT", "TPC at River Highlands Cromwell"]
- TLC#8: ["July 16 22", "B.C. Open", "NY", "En Joie Golf
Club Endicott"]
- TLC#9: ["July 30 Aug. 5", "Inernational", "CO",
Castle Pines Golf Club Castle Rock"]

FIG. 14b